STATE: _____ AGENCY _____ For FY2012 and FY2013 Funds
Attachment 1

Workplan for Use of Section 106 Monitoring Initiative FY 2013-2015 Funds

Part A. Implementation of Monitoring Strategies

Please identify how your State plans to use the FY 13, FY 14 and FY 15 Monitoring Initiative Strategy Implementation funds. It is important to keep in mind that these funds should be used for new, expanded or enhanced monitoring activities that will build upon the State's base monitoring programs as described in the State's Monitoring Strategy. In additional to the table below, States must submit a 1-2 page narrative workplan that describes in more detail the tasks listed including how the activity links to the State's monitoring strategy in terms of which gap, deficiency, timeline element, etc. is being addressed.

Some examples of program enhancement include:

- Adoption of statistically valid monitoring designs and assessment methodologies to expand coverage of waters and assessments
- Migration to Water Quality Exchange for data sharing and uploading of ambient monitoring data to national STORET warehouse
- biological monitoring and the development of improved assessment, stressor identification, and reporting tools
- Development of new tools such as predictive technology and remote sensing to refine applications of monitoring data

Expansion of the use and rigor of

Task/Description of Activity	Products and/or Deliverables (outputs)	Environmental Outcomes (related to EPA Strategic Plan)	2013 Expected Cost	2014 Expected Cost	2015 Expected Cost	Planned Completion Date	Identify how this task links to Monitoring Strategy (which gap, weakness, timeline element does this task address?)	National Database e.g., STORET, ATTAINS, other	Additional Information
Task #1: Collect and analyze bacteriological samples to determine recreational use attainment status. Work with citizen volunteer monitors to coordinate the collection of at least 2 sets of 5-day geometric means of fecal coliform bacteria densities in a 30-day period. Conduct analysis on split samples for fecal coliforms and E. coli to develop potential new recreational use criteria.	Geometric means and maximums from the 2 sets of samples will be compared to criteria for recreational use assessments. The assessment results will be reported in the Integrated Water Quality Monitoring and Assessment Report (Integrated Report).	Assessments of recreational use	$ 25,000.00	$52,000.00	$95,000.00	Dec. 31, 2015	Will increase the total stream miles assessed for recreational use.	Assessment results will be entered into the state assessment database which can be transferred to EPA. Information is also reported in the Integrated Report.	Funds will be used to cover acredited independent laboratory cost, lease of 5 cars. Local laboratoires must be used due to short holding time of samples. Includes $65,000 ($70,000 total) of additional funding for Recreational Monitoring.
Task #2: Maintain upgraded PA WQN parameter coverage to enable support of BLM calculations.			$ 4,653.21	$0.00	$0.00				Funding for this task moved to another source. Task Complete

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Task #3: Provide funding to train multiple staff at numerous meetings and workshops that improve staff proficiency in water quality monitoring activities, watershed modeling, statistical analysis and use of geographic information systems. Provide funding for travel costs for expanded recreational use assessment and for CADDIS workshops.	Enhanced communication between staff located throughout the Commonwealth will prevent duplication of effort and identify monitoring and assessment needs that should be addressed. Staff attendance at national meetings will improve state efforts to meet national goals and improve state proficiency with water quality monitoring and assessment.	More effective monitoring and assessment that will produce cost savings by reducing duplication of efforts.	$ 16,650.00	$24,722.00	$25,000.00	Dec. 31, 2015		Not Applicable	Most of funding will be used to pay for staff travel costs associated with the expanded recreational use monitoring and for CADDIS workshops. Includes $5,000 ($70,000 total) of additional funding for Recreational Use monitoring and $10,000 of additional funding to support CADDIS.
Task #4: Process and identify macroinvertebrates collected at WQN stations and other surface water assessment sample stations.			$ -	$0.00					Funding for this task from another source. Task Complete.
Task #5: Replacement of multiple continuous data loggers (data sondes) and probes to monitoring water quality parameters on an on-going basis.			$ 31,439.00	$0.00					Task Complete
Task #6: Purchase new and replacement equipment and supplies expended during normal sampling operations supporting statewide monitoring conducted for use attainment reporting in accordance with CWA Sections 303(d) and 305(b).	Ethanol, D-frame nets, forceps, field meters, buffer solutions, sample bottles, VOA vials, taxonomic keys, and other equipment and supplies.	Allow for continued monitoring and assessment of all protected water uses attainment status.	$ 10,000.00	$9,700.00	$10,000.00	Dec. 31, 2015		Not Applicable	
Task #7: Conduct continued study of Susquehanna River to determine attainment status of all designated uses. The study includes monitoring of major tributaries as well as existing and new locations on the mainstem. Monitoring will include use of data loggers for DO, pH, Temperature and Conductance; macroinvertebrates; fish; mussels; algae and nutrients and develop monitoring program for recreational use specific to large waterbodies. Also includes project to determine Thiamine levels in eggs and Thiaminase activity in invasive	Assessment results generated from the survey will be reported in the 2016 and future Integrated Reports.	Allow for continued monitoring and assessment of all protected water uses attainment status.	$ 82,257.79	$111,000.00	$110,000.00	Dec. 31, 2015		Assessment results will be entered into the state assessment database which can be transferred to EPA. Information is also reported in the Integrated Report.	A portion of funds will be used to purchase supplies, equipment and replacement parts need for the Susquehanna River aquatic life and recreational use assessment. The remaining portion of funds will be used to conduct analysis on algal species identification and biofilm fatty acid composition. Support contracting with outside laboratory to conduct analysis on biofilm fatty acid samples. This study remains a priority project which requires more resources in both money and personnel.
			$ 170,000.00	$197,422.00	$240,000.00				